

1988 FASEB SUMMER RESEARCH CONFERENCE ON RECEPTORS  
AUGUST 7-12, 1988 IN AXTONS RIVER, VERMONT  
FINAL PROGRAM

Chairperson: Richard D. Klausner, M.D.  
Chief, Cell Biology and Metabolism Branch  
National Institute of Child Health and Human Development  
National Institutes of Health  
Bethesda, MD 20892

Vice-Chairperson: Marc G. Caron, Ph.D.  
Associate Professor  
Department of Physiology  
Duke University Medical Center  
Durham, NC 27710

\* - Indicates Session Chairperson

Session I - Monday, August 8, 1988

9:00 a.m. - 12:00 noon

Topic: Receptor Structure

Speakers/Titles:

- \* Dr. Henry Metzger - Protein and genetical analysis of the receptor for IgE
- Dr. Simeon Taylor - Receptors as tyrosine kinases: The insulin receptor
- Dr. Robert Stroud - What three-dimensional structure tells us about the function of ion channels and ion channel forming receptors?
- Dr. Warren Leonard - Structure, function and regulation of the human interleukin-2 receptor

Session II - Monday, August 8, 1988

7:30 p.m. - 10:00 p.m.

Topic: Receptor Assembly, Dynamics and Cell Biology

Speakers/Titles:

- \* Dr. Richard Klausner - Assembly, transport and intracellular sorting of multisubunit receptor complexes
- Dr. Ari Helenius - Oligomerization and the fate of integral membrane proteins
- Dr. Keith Mostov - Transcytosis and sorting in polarized cells

Session III - Tuesday, August 9, 1988

9:00 a.m. - 12:00 noon

Topic: Complex Receptors and Receptor Families

Speakers/Titles:

- \* Dr. Marc Caron - Catecholamine receptors: Molecular characteristics and expression
- Dr. F. Anne Stephenson - The ligand-gated channel superfamily
- Dr. J. Ramachandran - The muscarinic receptor family
- Dr. Lawrence Samelson - The T cell antigen receptor complex: Mechanisms of signal transduction

Session IV - Tuesday, August 9, 1988

7:30 p.m. - 10:00 p.m.

Topic: Receptors, Coupling Proteins and Signal Transduction

Speakers/Titles:

- \* Dr. Henry Bourne - Structure and function of the alpha chain G<sub>i</sub>
- Dr. Al Gilman - G proteins and transmembrane signalling
- Dr. Lutz Birnbaumer - Ion channel activated by G proteins
- Dr. Robert Bell - Protein kinase C: Regulation by lipid second messengers

Session V - Wednesday, August 10, 1988

9:00 a.m. - 12:00 noon

Topic: Receptor Function and Regulation

Speakers/Titles:

- \* Dr. Robert Lefkowitz - Molecular mechanism of adrenergic receptor regulation
- Dr. C. Ronald Kahn - Insulin receptor as a tyrosine kinase
- Dr. Paul Hargrave - Structure and function of the visual light transduction system
- Dr. Cathy Strader - Structure and functional relationship of the beta adrenergic receptor

Session VI - Wednesday, August 10, 1988

7:30 p.m. - 10:00-p.m.

Topic: Receptors as DNA Binding Proteins

Speakers/Titles:

- \* Dr. William Schraeder
- Dr. Edwin Milgrom - Progesterone receptor-DNA interactions

Dr. Stan Hollenberg - Thyroid receptors and other new members of this gene family  
Dr. Gerd Klock - DNA regulatory elements for glucocorticoid and other receptors

Session VII - Thursday, August 11, 1988

9:00 a.m. - 12:00 noon

Topic: Receptors, Growth Regulation and Oncogenes

Speakers/Titles:

- \* Dr. Josie Schlessinger - The EGF receptor proto-oncogene: Structure, evolution and potential role in oncogenesis
- Dr. Jaime Escabedo - Signal transduction by the PDGF receptor
- Dr. Robert Weinberg - Mechanisms of negative regulation of cell growth
- Dr. Charles Sherr - The CSF-1 receptor (C-FMS)

Session VIII - Thursday, August 11, 1988

8:00 p.m. - 8:30 p.m.

Topic: Business Meeting

8:30 p.m. - 9:30 p.m.

Topic: Keynote Address

Speakers/Titles:

Dr. Daniel Koshland - Receptors and their role in information processing

Session IX - Friday, August 12, 1988

9:00 a.m. - 11:30 a.m.

Topic: Receptors that Mediate Cell-Cell Interactions

Speakers/Titles:

- \* Dr. Timothy Springer - Lymphocyte cell adhesion receptors
- Dr. Jean Butcher - Lymphocyte homing receptors